

**SJRWMD
HDS
2009 Station Analysis
V-0923 Crescent Lake Conservation Area Wells**

Station ID: 30292826, 4-inch diameter, 70 ft. deep IM well.

2009 Records: Hourly WLs: 12:00_01/15/2009 – 00:00_01/01/2010
Random WLs: 01/09//2009 – 12/16/2009

History of Monitoring: Hourly WLs: 12:00_01/15/2009 – 00:00_01/01/2010
Random WLs: 12/05/2008 – 12/16/2009

MP Elevation	V-0922
04/07/2008 Well drilled	500.
01/09/2009 HDS moved assumed MP to top of PCV flange	500.06
09/29/2009 SJR NGS/DEP Survey	20.67 black mark on floor of alum box

Equipment: CR1000 telemetry and an H-105 encoder.

Calibration: Two (2) manual water levels are made at each site visit and compared to the water level recorded in the data logger to determine the accuracy of the sensor. If the manual water level and data logger are within +/- 0.02, the station is considered in calibration.

Summary: Dates of site visits and comments are listed below:

09:00:00_02/02/2009 Removed encoder for slug test. No adjustment back to 12:00_01/15/2009.

11:04:59_02/03/2009 Station disabled for slug test.

11:05:00_02/03/2009 Manual measurement from QA form. Re-installed encoder.

11:23:00_02/17/2009 Manual measurement from WQ contractor QA form before WQ. No adjustment required back to 12:00_02/03/2009.

13:59:59_02/17/2009 Station disabled for WQ.

12:00:00_03/17/2009 No adjustment required back to 14:00_02/17/2009.

09:30:00_05/13/2009 Manual measurement from WQ contractor QA form before WQ.

10:59:59_05/13/2009 Station disabled for WQ. No adjustment back to 12:00:00_03/17/2009.

10:00:00_06/12/2009 No adjustment required back to 09:00:00_05/13/2009.

15:00:00_07/31/2009 No adjustment required back to 11:00_06/12/2009.

10:49:00_08/04/2009 Manual measurement from QA form. Site destroyed by lightening.

15:35:00_08/05/2009 Manual measurement from QA form. Began site reconstruction.

09:00:00_08/11/2009 No adjustment required back to 16:00_08/05/2009.

12:00:00_08/12/2009 Manual measurement from WQ contractor QA form. No adjustment back to 10:00_08/11/2009.

13:59:59_08/12/2009 Station disabled for WQ.

08:00:00_09/23/2009 No adjustment required back to 14:00_08/12/2009.
Data back to 12:00_01/15/2009 offset
-479.42 per SJR NGS/DEP Survey 09/29/09.
New NGVD 1929 MP=20.67.

10:00:00_12/16/2009 Data back to 09:00_12/16/2009 offset -479.42 per SJR Survey.

10:00:00_02/10/2010 Matches manual measurement from WQ contractors QA form. No adjustment required back to 11:00_12/16/2009.

2009 Quality Summary

Quality	Subtotal	%	Reliable Data	Unreliable Data
1	15.54 Days	4.26	350.50 Days 96.03%	14.50 Days 3.97%
2	328.59 Days	90.03		
150	6.37 Days	1.74		
Gap	14.50 Days	3.97		

**SJRWMD
HDS
2009 Station Analysis
V-0923 Crescent Lake Conservation Area Wells**

Historical Quality Summary

Quality	Subtotal	%	Reliable Data	Unreliable Data
1	78.96 Days	19.07	1.13 Years 100.00%	0.00 Second 0.00%
2	328.59 Days	79.37		
150	6.45 Days	1.56		
Totals	1.13 Years	100.00		

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
HYDROLOGIC DATA SERVICES
STATION DESCRIPTION

**Crescent Lake Conservation Area Wells
(V-0923)**

Updated on: 10/30/09 by Ty Heidelberg

Description prepared by: Ty Heidelberg

Station established on: Drilled 04/08/08

Description of station: 4 inch PVC Non-flowing monitoring well.

Hydron number: 30292826

History of Equipment:

01/15/2009: SE-105S encoders, typical tape, weight, and float arrangement-recording hourly data through the radio and modem using radio telemetry network.

08/04/2009: Found site heavily damaged by a lightning strike. All electronic equipment destroyed.

08/05/2009: Rebuilt site: replaced RTU box, all electronics, most conduit, wires and cables.

Manual WL Requirement:

Electric Tape:

Steel Tape & Chalk:

Ground water:

Aquifer code: IM

M.P. elevation: 500.09 (assumed until surveyed)

M.P. location: TOF

Depth of well: 70.5 ft. bls

Depth of casing: 73.4 ft. from TOC to bottom

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
HYDROLOGIC DATA SERVICES
STATION DESCRIPTION

**Crescent Lake Conservation Area Wells
(V-0923)**

Updated on: 10/30/09 by Ty Heidelberger

Description prepared by: Ty Heidelberger

Station established on: Drilled 04/08/08

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Hydron number: 30292826

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Steel Tape & Chalk:

Ground water:

Aquifer code: IM

M.P. elevation: 500.09 (assumed until surveyed)

M.P. location: TOF

Depth of well: 70.5 ft. bls

Depth of casing: 73.4 ft. from TOC to bottom

ST JOHNS RIVER WATER MANAGEMENT DISTRICT
HYDROLOGIC DATA SERVICES
STATION DESCRIPTION

**Crescent Lake Conservation Area Wells
V 0923**

Updated on 01/22/09 by Ty Heidelberg

Description prepared by Ty Heidelberg

Station established on Drilled 04/08/08

Description of station 4 inch PVC ground water monitoring well

Hydron number 30292826

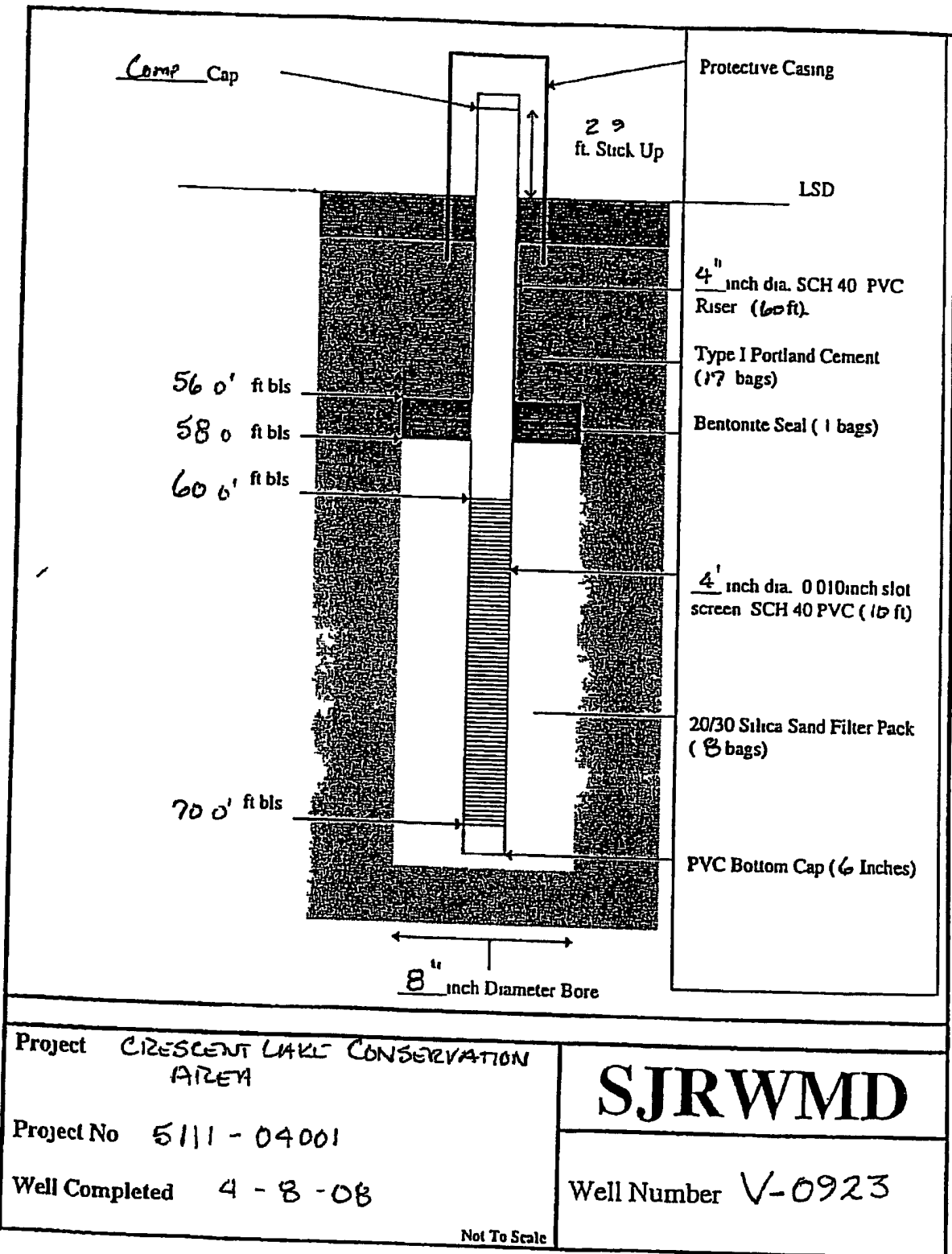
History of Equipment 01/15/2009 Installed a CR1000 data logger RF500M modem Maxon radio SE 105S encoders typical tape weight and float arrangement recording hourly data through the radio and modem using radio telemetry network

Manual WL Requirement

Electric Tape
Steel Tape & Chalk

Ground water

Aquifer code IM
M P elevation 500.09 (assumed until surveyed)
M P location TOF
Depth of well 70.5 ft bls
Depth of casing 73.4 ft from TOC to bottom



~~FILED~~ # V-0923 CLIP # DIP #

Indicate remaining wells to be cancelled _____

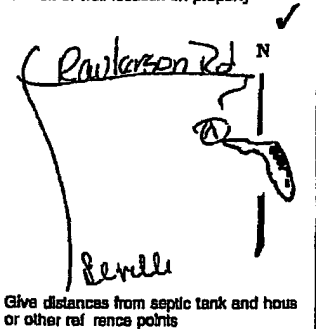
SIGNATURE Garcia [illegible] License # 2879

I certify that the information provided in this report is accurate and true

WELL LOCATION Site Address Crescent Lake (County) Volusia
 114 of 114 of Section 22 Twp 13S Rge. 28E
 Latitude 29.2054 Longitude 81.2712

DATE STAMP

Sketch of well location on property



Give distances from septic tank and house or other reference points

Official Use Only

CHEMICAL ANALYSIS WHEN REQUIRED

iron: _____ ppm Sulfate: _____ ppm

Chlo dec: _____ ppm

☐ Lab Test ☐ Field Test Kit

uint Type

☐ Centrifugal ☐ Jet ☐ Submersible ☐ Turbine

Horsepower _____ Capacity _____ G.P.M. _____

ump Depth _____ Ft. Intake Depth _____ Ft.

COMPLETION DATE 4-7-08 Florida Unique ID _____

WELL USE DEP/Public _____ Irrigation _____ Domestic _____ Monitor ☒

HRS Limited 62-524 Other

DRILL METHOD ☒ Rotary ☐ Cable Tool ☐ Combination

☐ Jet ☐ Auger Other

Measured Static Water Level <u>3.28</u>		Measured Pumping Water Level _____	
After _____ Hours at _____ G.P.M. Measuring Pt. (Describe) _____			
Which is _____ Ft. [] Above [<u>16</u>] Below Land Surface			
Casing [] Black Steel [] Galv [<u>1</u>] PVC Other _____			
☐ Open Hole ☒ Screen		Depth (FL) From _____ To _____	
Casing Diameter & Depth (FL) Diameter <u>4"</u> From <u>0.0</u> To <u>60.0</u>		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities depth to producing zones. Color Grain Size Type of Material <u>Yellow-brown fine to medium sand</u>	
Screen <u>4"</u> Diameter <u>4"</u> From <u>60.0</u> To <u>70.0</u>		<u>48.0</u> <u>500</u> <u>50.0</u> <u>12.0</u> <u>greenish gray, sandy clay</u> <u>light greenish green clayey sand</u>	
Liner [] or Casing [] Diameter _____ From _____ To _____			

Driller's Name: Eddie Palmer
(print or type)